TA-VE150

SERVICE MANUAL

AEP Model UK Model



This amplifier has the Dolby Surround system. Manufactured under license from Dolby Laboratories Licensing Corporation.

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SPECIFICATIONS

	SPECIFIC	CATIONS	
Amplifier section Power output		Outputs	VIDEO (AUDIO OUT): Voltage 200 mV, Inpedance 10 kilohms
Stereo mode	(DIN 1 kHz, 8 ohms) 25 W + 25 W		WOOFER/AUDIO OUT: Voltage: 2 V Impedance: 1 kilohms
Surround mode	(DIN 1 kHz, 8 ohms)		
	Front: 25 W/ch Centre: 25 W	Muting	Full mute
	Rear: 25 W/ch	BASS BOOST	+9 dB at 70 Hz
5.1 CH	(DIN 1 kHz, 8 ohms)	_	
INPUT/DVD mode	Front: 25 W/ch	General	
	Centre: 25 W Rear: 25 W/ch	Power requirements	230 V AC, 50/60 Hz
Frequency response	TV, VIDEO, DVD-2CH,	Power consumption	115 W
	5.1 CH INPUT/DVD: 20 Hz-50 kHz ± 1 dB	Dimensions	$430 \times 274 \times 64.5 \text{ mm}$
Inputs		Mass (Approx.)	5.4 kg
	_	Supplied accessories	Remote controller
Sensi	tivity Impedance S/N	~ 	(remote) (1)
	(weighting network, input level)		Size AA (R6) batteries (2) Scart adaptor (1)
TV, VIDEO, DVD-2CH, 5.1 CH INPUT/DVD	200 mV 50 82 dB* kilohms (A, 150 mV)	Design and energifications a	re subject to change without notice.
3.1 CIT IINF 01/DVD	KHOHHIS (A, 130 HIV)	Design and specifications a	te subject to change without house.

*'78 IHF

INTEGRATED AV AMPLIFIER

Specifications indicated are measured at 230 VAC, 50 HZ.





TABLE OF CONTENTS

1.	GENERAL	3
2.	DISASSEMBLY	4
3.	TEST MODE	5
4.	DIAGRAMS	6
4-1.	Notes for Printed Wiring Board	
	and Schematic Diagram	7
4-2.	Printed Wiring Board - MAIN Section	11
4-3.		
4-4.	Schematic Diagram - MAIN Section (2/2)	
4-5.	Printed Wiring Boards - PANEL Section	17
4-6.	Schematic Diagram - PANEL Section	19
4-7.	Printed Wiring Boards - POWER Section	21
4-8.	Schematic Diagram - POWER Section	23
4-9.	IC Pin Function Description	25
5.	EXPLODED VIEWS	27
6	FLECTRICAL PARTS LIST	20

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

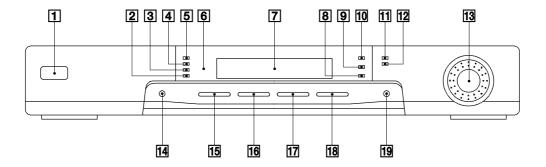
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY A & MARK ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 GENERAL

Location of controls

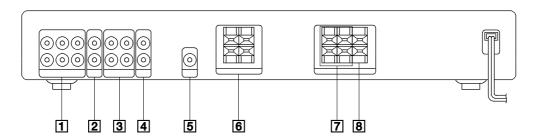
- Front view -



- I / button
- 3 STEREO indicator
- NORMAL indicator
- WIDE indicator
- PHANTOM indicator
- Remote sensor
- Display window
- SIMULATED indicator
- C. STUDIO indicator
- 10 PRO LOGIC indicator

- **BASS BOOST indicator**
- MUTING indicator
- MASTER VOLUME dial
- **CENTER MODE button**
- 11 12 13 14 15 16 17 TV button
- VIDEO button
- DVD, 2 CH button
- 5.1 CH INPUT, DVD button
- SURROUND MODE button

- Rear view -

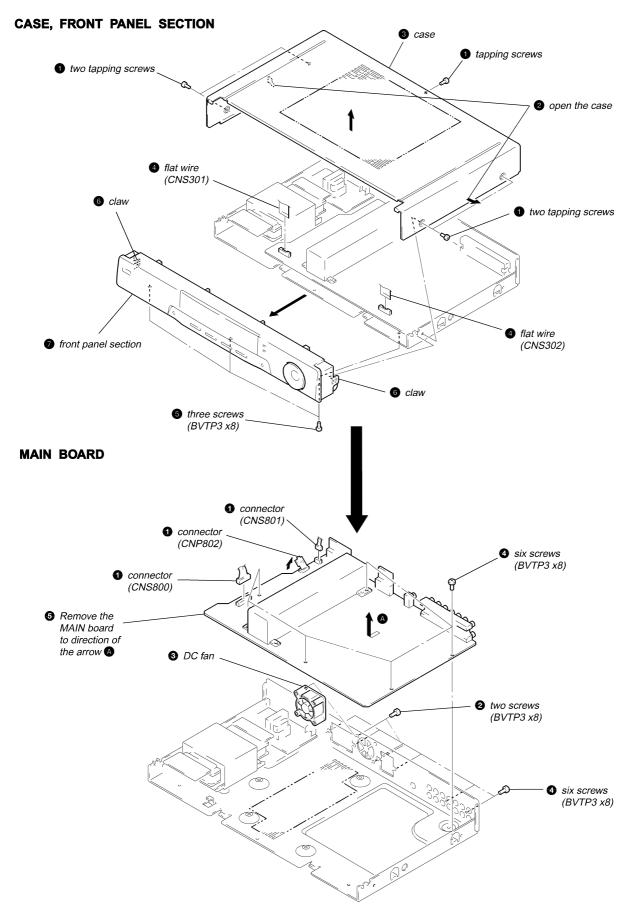


- 5.1 CH INPUT/DVD jacks
- DVD 2 CH jacks
- VIDEO jacks
- TV jacks

- WOOFER jack
- FRONT SPEAKERS terminals
- 6 7 8 **REAR SPEAKERS terminals**
- CENTER SPEAKER terminals

SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.



SECTION 3 TEST MODE

This equipment is provided with a test mode built in the microcomputer. The contents are described in the following.

[Initial Mode]

- 2. "INITIAL" is displayed on the fluorescent indicator tube, and the status of the unit is set in the following.
- All Memory is clear.
- Center, rear level set to 0.
- · Center mode set to Phantom.
- · DBFB clear.
- · Muting clear.
- · Volume level set to min.

[Factory Mode]

- 1. Press 1/0 button while pressing three buttons of TV, DVD, 2CH, and 5.1CH INPUT, DVD simultaneously.
- Factory setting same as initial except center mode set to normal using jog can set to volume max or min directly.

[FL Check Mode]

- 1. Press [I/O] button while both [CENTER MODE] and [VIDEO] buttons simultaneously.
- Fluorescent indicator tube and LED are checked, "FINISH" is displayed and the status of the unit is set back in normal condition.

[Gain Up Mode]

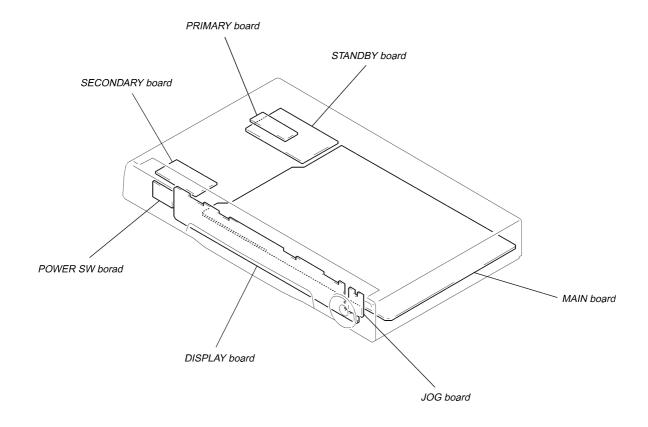
- 1. Press [I/O] button while pressing SURROUND MODE button.
- "GAIN UP" is displayed on the fluorescent indicator tube and the rear is gained up 3 dB.
- 3. To exit from this mode, press two buttons in the same manner as step1.
 - "NORMAL" is displayed on the fluorescent indicator tube and the status of the unit is set back in normal condition.

[Version Mode]

- 1. Press I/O button while pressing both CENTER MODE and SURROUND MODE buttons simultaneously.
- Version of its destination is displayed on the fluorescent indicator tube.

SECTION 4 DIAGRAMS

• Circuit Boards Location



4-1. NOTES FOR PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM

Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $^{1}\!/_{\!4}\,W$ or less unless otherwise specified.
- \(\Delta \) : internal component.
 : nonflammable resistor.
 : panel designation.

Note: The components identified by mark ∆ or dotted line with mark ∆ are critical for safety. Replace only with part number specified.

• B+ : B+ Line. • B- : B- Line.

 Voltages and waveforms are dc with respect to ground under no-signal conditions.

no mark : VIDEO

- Voltages are taken with a VOM (Input impedance 10 MΩ).
 Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
 Voltage variations may be noted due to normal production tolerances.
- · Circled numbers refer to waveforms.

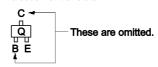
· Signal path.

⇒ :FRONT/AUDIO IN

: REAR
: CENTER
: WOOFER

Note on Printed Wiring Board:

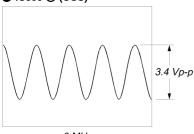
- · o----: parts extracted from the component side.
- : parts mounted on the conductor side.
- Indication of transistor.





• Waveforms - MAIN Board -

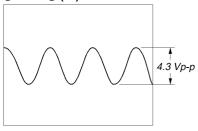
1C300 (OSC)



8 MHz

- DISPLAY Board -

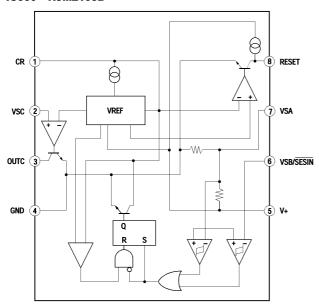
1C201 3 (X1)



4.19 MHz

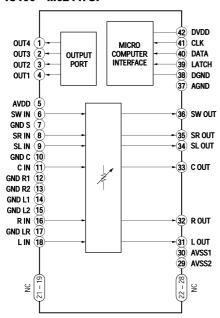
- IC Block Diagrams
- STANDBY Board -

IC950 NJM2103D

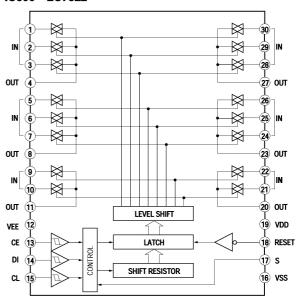


- MAIN Board -

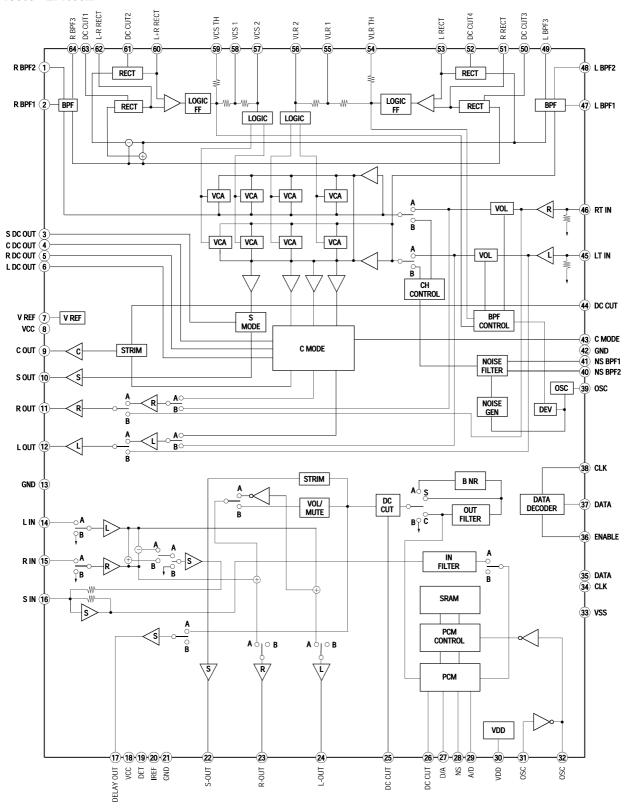
IC100 M62447SP



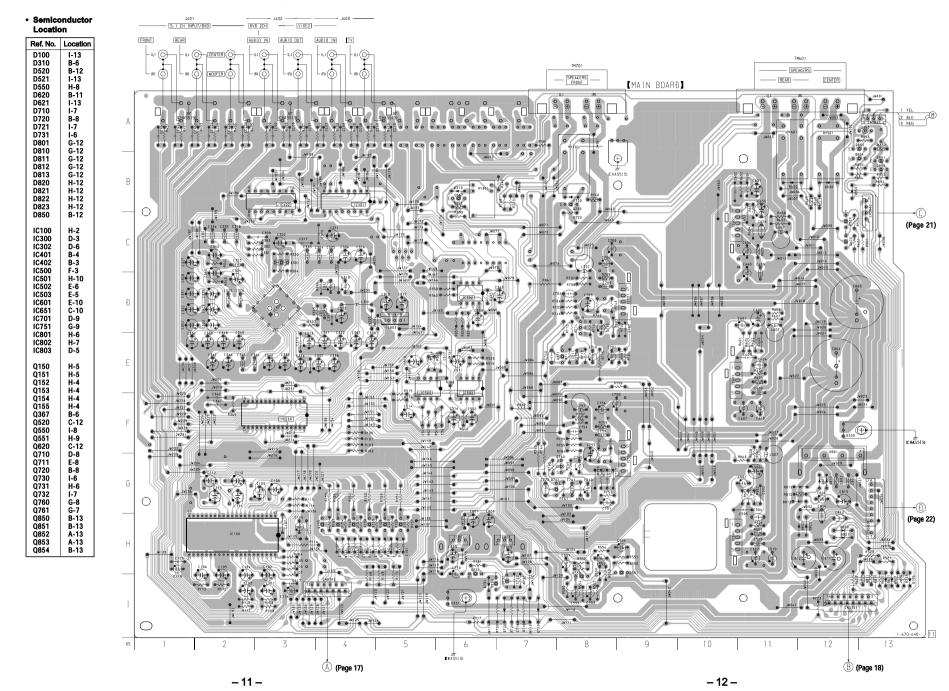
IC500 LC7822



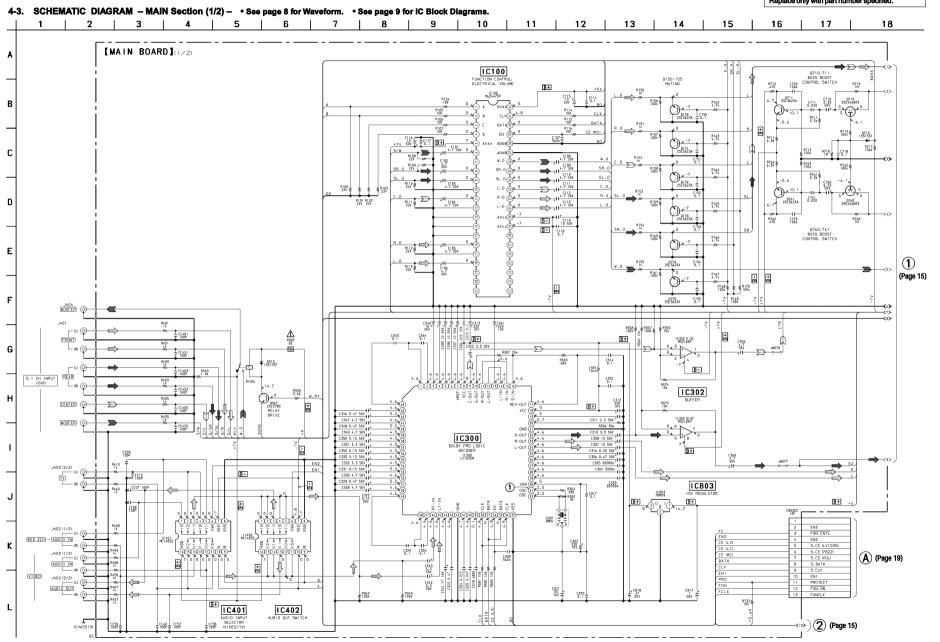
IC300 LV1035M



4-2. PRINTED WIRING BOARD - MAIN Section - • See page 6 for Circuit Boards Location.

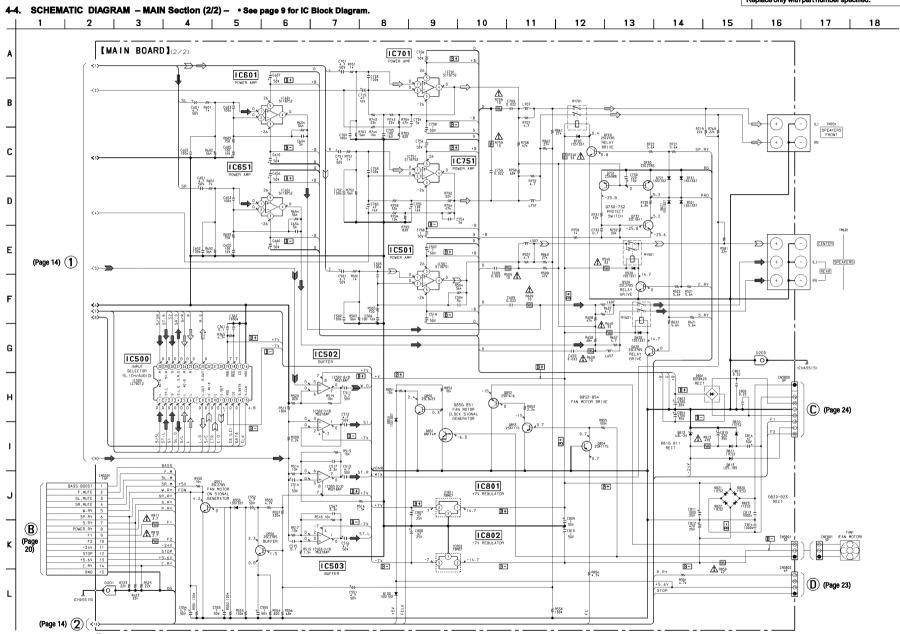


The components identified by mark ∆ or dotted line with mark ∆ are critical for safety. Replace only with part number specified.



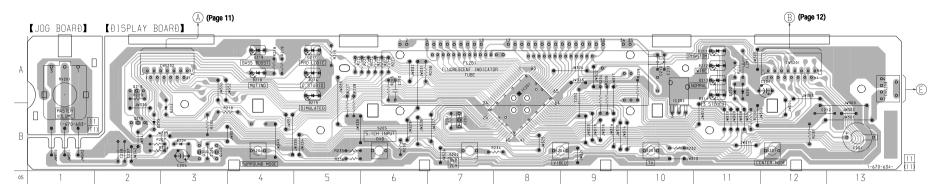
The components identified by mark ∆ or dotted line with mark ∆ are critical for safety.

Replace only with part number specified.



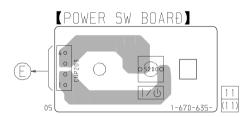
TA-VE150

4-5. PRINTED WIRING BOARDS - PANEL Section - • See page 6 for Circuit Boards Location.

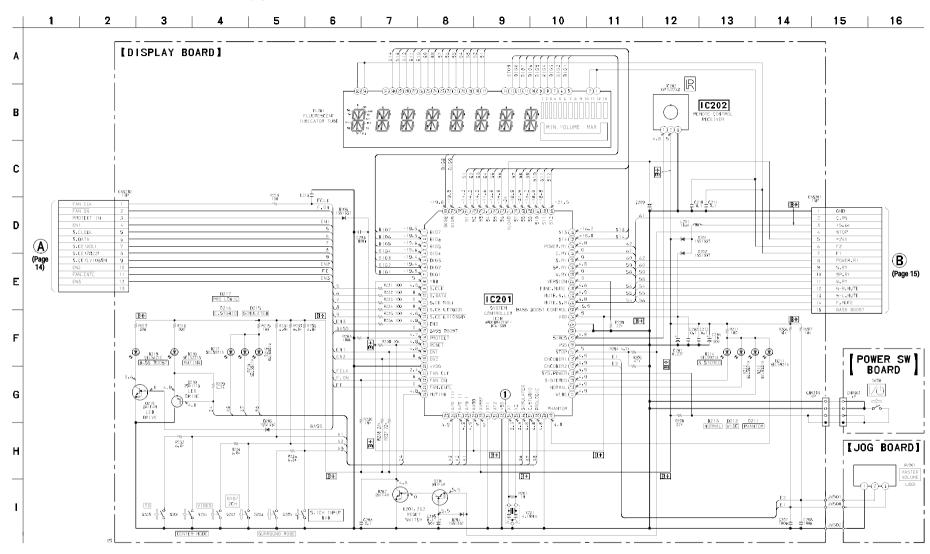


Semiconductor Location

Ref. No.	Location
D201	A-11
D202	A-11
D203	B-3
D204	B-3
D205	B-2
D211	A-11
D212	A-11
D213	A-11
D214	A-11
D215	A-5
D216	A-5
D217	A-5
D218	A-4
D219	A-4
IC201	A-8
IC202	A-10
Q201	B-3
Q202	B-3
Q218	A-2
Q219	B-2



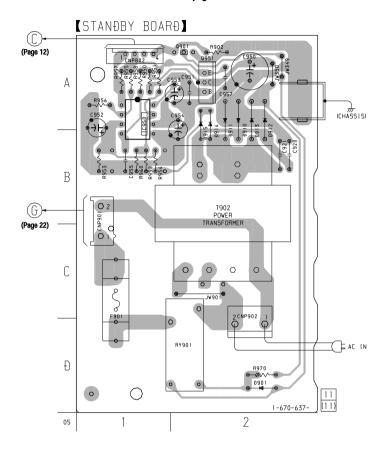
4-6. SCHEMATIC DIAGRAM - PANEL Section - • See page 8 for Waveform.

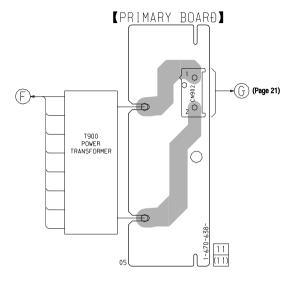


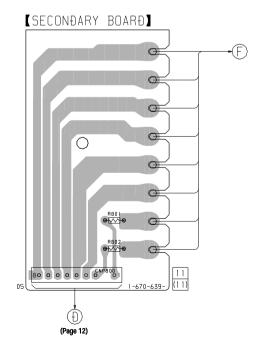
4-7. PRINTED WIRING BOARDS - POWER Section - • See page 6 for Circuit Boards Location.

Semiconductor Location

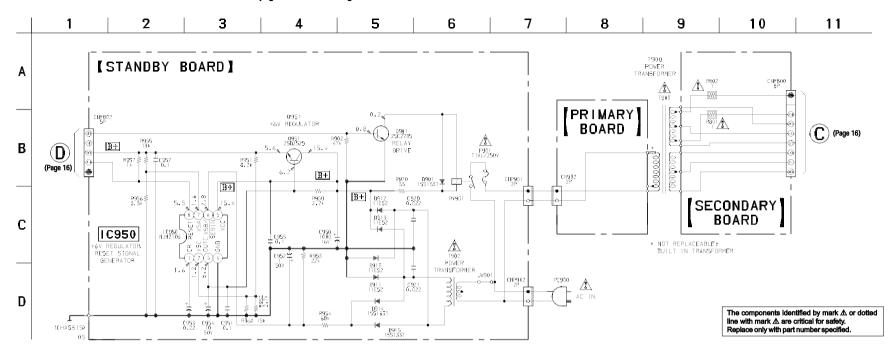
Ref. No.	Location
D901	D-2
D910	A-2
D911	A-2
D912	A-2
D913	A-2
D914	A-2
D915	A-2
IC950	A-1
Q901	A-2 A-2
Q951	A-2







4-8. SCHEMATIC DIAGRAM - POWER Section - • See page 9 for IC Block Diagram.



4-9. IC PIN FUNCTION DESCRIPTION

• DISPLAY BOARD IC201 µPD78042FGF-076-3B9 (SYSTEM CONTROLLER, FL/LED DRIVER, KEY CONTROL)

Pin No.	Pin Name	I/O	Function
1 to 7	DIG7 to DIG1	0	Grid drive signal output to the fluorescent indicator tube (FL201)
8	VDD		Power supply terminal (+5V)
			Serial data transfer clock signal output to the M62447SP (IC100), LV1035M (IC300) and
9	S. CLK	0	LC7822 (IC500)
10	S. DATA	0	Serial data output to the M62447SP (IC100), LV1035M (IC300) and LC7822 (IC500)
11	S. CE (VOL)	0	Chip enable signal output to the M62447SP (IC100) "H" active
12	S. CE (LC7822)	0	Chip enable signal output to the LC7822 (IC500) "H" active
13	S. CE (LV1035M)	0	Chip enable signal output to the LV1035M (IC300) "H" active
14	EN3	0	Enable signal output terminal "L" active Not used
15	BASS BOOST	0	LED drive signal output of the BASS BOOST LED (D219) "H": LED on
16	PROTECT	I	Overload protection input terminal
17	RESET	I	System reset signal input from the reset signal generator circuit "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
18	EN1	0	Enable signal output to the function switch (IC402) "L" active
19	EN2	0	Enable signal output to the function switch (IC401) "L" active
20	AVSS	_	Ground terminal (for A/D converter)
21	FAN CLK	I	Fan motor clock signal input terminal
22	FAN ON	I	Fan on signal input for the fan motor drive
23	FAN. CNTL	0	Fan motor control signal output terminal "L": fan motor on
24	MUTING	0	LED drive signal output of the MUTING LED (D218) "H": LED on
25	_	I	Not used (open)
26	A/D III	I	Key input terminal (A/D input) S205, 206 (5.1 IN, SURROUND MODE keys input)
27	A/D II	I	Key input terminal (A/D input) S202, 204 (VIDEO, DVD keys input)
28	A/D I	I	Key input terminal (A/D input) S201, 203 (CENTER MODE, TV keys input)
29	AVDD		Power supply terminal (+5V) (for A/D converter)
30	AVREF	I	Reference voltage (+5V) input terminal (for A/D converter)
31	XT1	I	Sub system clock input terminal Not used (fixed at "L")
32	XT2	0	Sub system clock output terminal Not used (open)
33	VSS	_	Ground terminal
34	X1	I	Main system clock input terminal (4.19 MHz)
35	X2	0	Main system clock output terminal (4.19 MHz)
36	SIMULATED	0	LED drive signal output of the SIMULATED LED (D215) "L": LED on
37	C. STUDIO	0	LED drive signal output of the C.STUDIO LED (D216) "L": LED on
38	PROLOGIC	0	LED drive signal output of the PROLOGIC LED (D217) "L": LED on
39	_	I	Not used (fixed at "L")
40	PHANTOM	0	LED drive signal output of the PHANTOM LED (D211) "L": LED on
41	WIDE	0	LED drive signal output of the WIDE LED (D212) "L": LED on
42	NORMAL	0	LED drive signal output of the NORMAL LED (D213) "L": LED on
43	3-STEREO	0	LED drive signal output of the 3 STEREO LED (D214) "L": LED on
44	SYS. POWER	I	System power on/off switch (S200 I/ \bigcirc) input terminal
45	ENCODER 2	I	Jog dial pulse input from the rotary encoder (RV201 MASTER VOLUME)
46	ENCODER 1	I	Jog dial pulse input from the rotary encoder (RV201 MASTER VOLUME)
47	STOP	I	Power down detection signal input from the NJM2103D (IC950) "L": power down
48	VSS		Ground terminal
49	SIRCS	I	Sircs signal input from the remote control receiver (IC202)
50, 51		I	Not used (fixed at "L")
50, 51		1	The most (thest at D)

Pin No.	Pin Name	I/O	Function
52	VDD	_	Power supply terminal (+5V)
53	BASS BOOST CONTROL	О	Bass boost on/off control signal output for the DBFB circuit "H": bass boost on
54	MUTE. S. R	O	Line muting on/off control signal output for the rear speaker right channel signal "H": muting on
55	MUTE. S. L	0	Line muting on/off control signal output for the rear speaker left channel signal "H": muting on
56	FUNC. MUTE	O	Line muting on/off control signal output for the front and center speakers signal "H": muting on
57	VERSION	I	Setting terminal for the version (fixed at "L" in this set)
58	W. RY	0	Woofer on/off relay drive signal output terminal "H": relay on
59	SP. RY	0	Front speaker on/off relay drive signal output terminal (for protect) "H": relay on
60	S. RY	О	Rear speaker on/off relay drive signal output terminal (for protect) "H": relay on
61	C. RY	0	Center speaker on/off relay drive signal output terminal (for protect) "H": relay on
62	POWER. RY	0	Power on/off relay drive signal output terminal "H": relay on (power on)
63 to 70	S14 to S7	0	Segment drive signal output to the fluorescent indicator tube (FL201)
71	VLOAD	_	Power supply terminal (-24V) (for FL drive)
72 to 77	S6 to S1	0	Segment drive signal output to the fluorescent indicator tube (FL201)
78		0	Not used (open)
79, 80	DIG9, DIG8	0	Grid drive signal output to the fluorescent indicator tube (FL201)

SECTION 5 EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example:

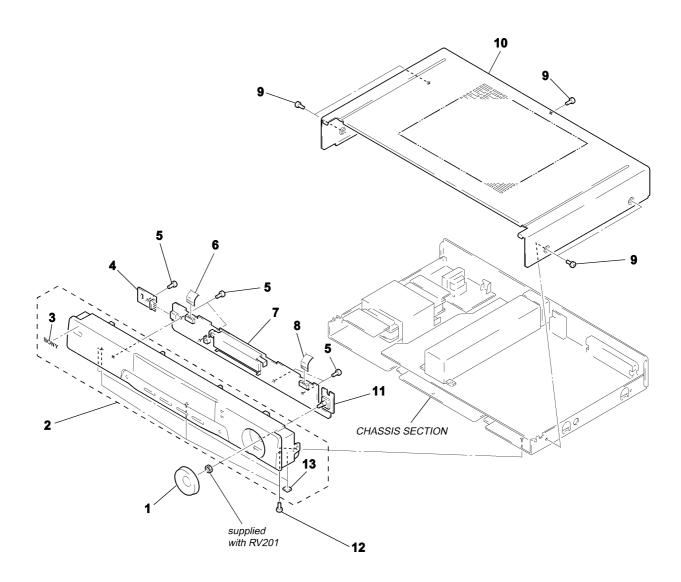
KNOB, BALANCE (WHITE) ... (RED)

Parts Color Cabinet's Color

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories and packing materials are given in the last of the electrical parts list.

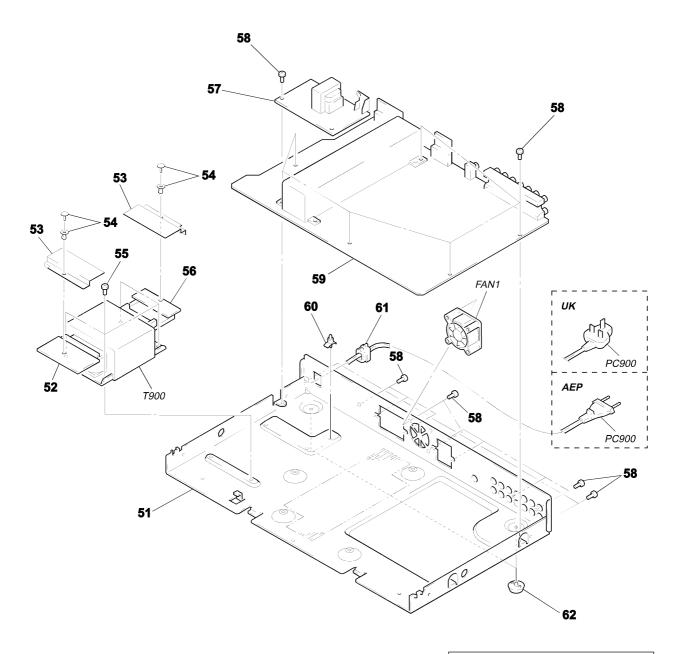
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

(1) CASE, FRONT PANEL SECTION



Ref. No.	Part No.	Description	<u>Remark</u>	Ref. No.	Part No.	Description	<u>Remark</u>
1	4-211-178-01	KNOB (VOL)		8	1-769-973-11	WIRE (FLAT TYPE) (13 CORE)	
2	X-4950-243-1	FRONT PANEL ASSY		9	3-710-901-11	SCREW, TAPPING	
3	3-008-600-11	EMBLEM (5-AR), SONY		* 10	4-211-182-01	CASE	
* 4	1-670-635-11	POWER SW BOARD		* 11	1-670-683-11	JOG BOARD	
5	4-951-620-01	SCREW (2.6X8), +BVTP		12	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
6	1-777-353-11	WIRE (FLAT TYPE) (15 CORE)		13	4-977-358-11	CUSHION	
* 7	A-4414-849-A	DISPLAY BOARD, COMPLETE					

(2) CHASSIS SECTION



The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	<u>Remark</u>
* 51	4-211-183-01	CHASSIS PANEL		* 59		MAIN BOARD, COMPLETE	
* 52	1-670-639-11	SECONDARY BOARD		* 60	4-924-098-21	HOLDER, PC BOARD	
53	4-212-070-01	INSULATOR (PT)		* 61	3-703-244-00	BUSHING (2104), CORD	
54	3-531-576-11	RIVET		62	4-965-822-01	FOOT	
55	7-685-880-09	SCREW +BVTT 4X6 (S)		FAN1	1-763-137-11	FAN, DC	
* 56	1-670-638-11	PRIMARY BOARD		 ⚠ PC900	1-751-520-11	CORD, POWER (UK)	
* 57	A-4414-851-A	STANDBY BOARD, COMPLETE		⚠ PC900	1-777-071-21	CORD, POWER (AEP)	
58	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S		∆ T900	1-431-979-11	TRANSFORMER, POWER	

DISPLAY

SECTION 6 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms.

METAL: Metal-film resistor.

METAL OXIDE: Metal oxide-film resistor.

F: nonflammable

 Items marked "*" are not stocked since they are seldom required for routine service.
 Some delay should be anticipated when ordering these items.

SEMICONDUCTORS

 $\label{eq:linear_problem} \begin{array}{lll} \text{In each case, u: μ, for example:} \\ \text{uA.} & : & \mu \text{A.} & \text{uPA.} & : & \mu \text{PA.} \\ \text{uPB.} & : & \mu \text{PB.} & \text{uPC.} & : & \mu \text{PC.} \\ \end{array}$

uPD. . : μPD. .
• CAPACITORS

uF: μF

• COILS uH: µH The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

D-f N-	Dood No.	December			D	D-f N-	Don't No.	Danasiation			Damada
Ref. No.	Part No.	Description Remark			Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	
*	A-4414-849-A	DISPLAY BOARD, COMPLETE					< IC >				
		******	******	**		10001	0.750.540.41	IO DD70040		•	
	4 021 041 01	CUCHION (EL)				IC201 IC202		IC uPD78042 IC GP1U27XE		9	
*		CUSHION (FL) HOLDER (FL TUE) 			10202	8-759-332-18	IC GP102/X	•		
•	4-343-107-11	HOLDER (I'L TOL)L)					< COIL >			
		< CAPACITOR >						(OOIL)			
						L201	1-410-509-11	INDUCTOR	10uH		
C201	1-125-486-11	DOUBLE LAYERS	0.22F		5.5V						
C202	1-164-159-11	CERAMIC	0.1uF		50V			< TRANSISTO	R>		
C203	1-162-294-31	CERAMIC	0.001uF	10%	50V						
C204	1-124-261-00	ELECT	10uF	20%	50V	Q201	8-729-900-63	TRANSISTOR	DTA124ES		
C205	1-124-465-00	ELECT	0.47uF	20%	50V	Q202	8-729-900-36	TRANSISTOR	DTC124ES		
						Q218		TRANSISTOR		IFE	
C206	1-164-159-11		0.1uF		50V	Q219	8-729-900-36	TRANSISTOR	DTC124ES		
C207	1-162-282-31		100PF	10%	50V						
C208	1-162-282-31		100PF	10%	50V			< RESISTOR >			
C210	1-164-159-11		0.1uF		50V						
C211	1-164-159-11	CERAMIC	0.1uF		50V	R200	1-249-433-11		22K	5%	1/4W
						R201	1-247-903-00		1M	5%	1/4W
C212	1-164-159-11	CERAMIC	0.1uF		50V	R203	1-249-441-11		100K	5%	1/4W
		0011150700				R204	1-249-425-11		4.7K	5%	1/4W
		< CONNECTOR >				R205	1-249-437-11	CARBON	47K	5%	1/4W
* CNC201	1 560 206 11	SOCKET, CONNE	CTOD (I T\	/DE\ 15D		R206	1-249-429-11	CADRON	10K	5%	1/4W
		SOCKET, CONNEC	•	IKE) ISF		R207	1-249-429-11		10K 10K	5%	1/4W
		CONNECTOR, BO		ANDD 4D		R207	1-249-429-11		10K 10K	5%	1/4W
0143200	1-303-400-11	CONNECTOR, DO	AND IO D	JAKD 41		R209	1-249-433-11		22K	5%	1/4W
		< DIODE >				R210	1-247-807-31		100	5%	1/4W
D201	8-719-911-19	DIODE 1SS119				R211	1-247-807-31	CARBON	100	5%	1/4W
D202	8-719-911-19	DIODE 1SS119				R215	1-247-807-31	CARBON	100	5%	1/4W
D203	8-719-911-19	DIODE 1SS119				R218	1-249-412-11	CARBON	390	5%	1/4W
D204	8-719-911-19	DIODE 1SS119				R219	1-249-412-11	CARBON	390	5%	1/4W
D205	8-719-911-19	DIODE 1SS119				R221	1-247-807-31	CARBON	100	5%	1/4W
D211		LED SEL5921A-T				R222	1-247-807-31		100	5%	1/4W
D212		LED SEL5921A-T		•		R223	1-247-807-31		100	5%	1/4W
D213		LED SEL5921A-T	•	•		R224	1-247-807-31		100	5%	1/4W
D214		LED SEL5921A-T				R225	1-247-807-31		100	5%	1/4W
D215	8-719-046-36	LED SEL5921A-T	H15 (SIMU	JLATED)		R226	1-247-807-31	CARBON	100	5%	1/4W
D216	0 710 046 26	LED SEL5921A-T	TU1E (C CT	TIDIO)		R227	1-249-433-11	CADDON	22K	5%	1/4W
D216 D217						R227	1-249-433-11		22K 22K	5% 5%	1/4W 1/4W
D217 D218		LED SEL5921A-T LED SEL5221S (I		LUGIU)		R228 R229	1-249-433-11		22K 4.7K	5% 5%	1/4W 1/4W
D218 D219		LED SEL52215 (I	•	(TPOOR		R230	1-249-425-11		4.7K 10K	5% 5%	1/4W 1/4W
DLIB	U-710-040-43	LLD JLLJ42 IE-I	10 (DASS	, 50031)		R230	1-249-427-11		6.8K	5% 5%	1/4W
		< FLUORESCENT	INDICATO	R TURF >		1,4231	1-640-461-11	CARDON	0.01	J /U	17744
		LO ONLO OLIVI				R232	1-249-427-11	CARBON	6.8K	5%	1/4W
FL201	1-517-786-11	INDICATOR TUBI	E. FLUORES	SCENT		R233	1-249-427-11		6.8K	5%	1/4W
						R234	1-249-427-11		6.8K	5%	1/4W
						R235	1-249-427-11		6.8K	5%	1/4W

DISPLAY JOG MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R236	1-249-427-11	CARRON	6.8K	5%	1/4W	C307	1-126-964-11	FLECT	10uF	20%	50V
INZ30	1-245-427-11	CARDON	U.UIX	370	1/711	C308	1-126-964-11		10uF	20%	50V
		< SWITCH >				C309	1-162-291-31		560PF	10%	50V 50V
		\ 3WIIGH >				C310	1-126-962-11		3.3uF	20%	50V
S201	1 762 975 21	SWITCH, KEYBOA	ADD (CENTI	ED MODI	E)	C310	1-126-961-11		2.2uF	20%	50V 50V
S201		SWITCH, KEYBOA			-)	6311	1-120-901-11	ELECT	Z.ZUF	2070	30 V
S202		SWITCH, KEYBOA	•	2011)		C312	1-126-934-11	ELECT	220uF	20%	10V
S203				w.			1-126-934-11		220uF 220uF	20%	10V 10V
		SWITCH, KEYBOA			ראט)	C313					
S205	1-/02-8/5-21	SWITCH, KEYBOA	AKD (S. ICH	INPUI,	(טעט	C314	1-136-165-00		0.1uF	5%	50V
0000	4 700 075 04	CMITOLI KEVDO	DD (CUDD	OLINID A	10DE)	C315	1-164-159-11		0.1uF	000/	50V
S206	1-/02-8/5-21	SWITCH, KEYBO	AKD (SUKK	א שאטט	IODE)	C316	1-124-252-00	ELECI	0.33uF	20%	50V
		- VIDDATOD -				C217	1 164 150 11	CEDAMIC	Λ 1Γ		50V
		< VIBRATOR >				C317 C318	1-164-159-11 1-136-357-11		0.1uF 680PF	E0/	50V 50V
V201	1 577 101 11	VIDDATOD CEDA	MIC /4 108	#I I-\						5%	
X201	1-5//-101-11	VIBRATOR, CERA	.IVIIC (4. 19N *******			C322 C323	1-126-962-11		3.3uF	20%	50V
**********			******				1-136-173-00		0.47uF	5%	50V
*	1 670 602 11	IOC DOADD				C324	1-104-664-11	ELECI	47uF	20%	16V
•	1-670-683-11	*********				0005	1 100 105 00	FILM.	0.15	F0/	F0\/
		******				C325	1-136-165-00		0.1uF	5%	50V
		DOT: DV 511001				C326	1-136-165-00		0.1uF	5%	50V
		< ROTARY ENCO	DER >			C327	1-126-959-11		0.47uF	20%	50V
						C328	1-126-163-11		4.7uF	20%	50V
		ENCODER, ROTA				C329	1-126-959-11	ELECT	0.47uF	20%	50V
*******	********	**********	******	******	******						
						C330	1-126-163-11		4.7uF	20%	50V
*	A-4414-854-A	MAIN BOARD, CO				C331	1-124-250-11		0.15uF	20%	50V
		********	*****			C332	1-126-962-11	ELECT	3.3uF	20%	50V
						C333	1-124-250-11		0.15uF	20%	50V
	4-812-134-00	RIVET (DIA. 3.5),	NYLON			C334	1-137-372-11	FILM	0.022uF	5%	50V
	7-685-872-09	SCREW +BVTT	3X8 (S)								
						C335	1-136-161-00		0.047uF	5%	50V
		< CAPACITOR >				C336	1-126-934-11	ELECT	220uF	20%	10V
						C337	1-126-964-11	ELECT	10uF	20%	50V
C101	1-126-163-11		4.7uF	20%	50V	C338	1-126-964-11	ELECT	10uF	20%	50V
C102	1-126-163-11	ELECT	4.7uF	20%	50V	C339	1-126-964-11	ELECT	10uF	20%	50V
C103	1-126-163-11	ELECT	4.7uF	20%	50V						
C104	1-126-163-11	ELECT	4.7uF	20%	50V	C340	1-126-964-11	ELECT	10uF	20%	50V
C105	1-126-163-11	ELECT	4.7uF	20%	50V	C341	1-126-934-11	ELECT	220uF	20%	10V
						C342	1-126-962-11		3.3uF	20%	50V
C106	1-126-163-11	ELECT	4.7uF	20%	50V	C343	1-126-962-11	ELECT	3.3uF	20%	50V
C107	1-162-291-31		560PF	10%	50V	C344	1-136-165-00	FILM	0.1uF	5%	50V
C108	1-126-163-11		4.7uF	20%	50V						
C109	1-126-163-11		4.7uF	20%	50V	C345	1-136-165-00	FILM	0.1uF	5%	50V
C110	1-126-163-11		4.7uF	20%	50V	C346	1-126-959-11		0.47uF	20%	50V
00	20 .00			_0,0		C347	1-126-163-11		4.7uF	20%	50V
C111	1-126-163-11	FLECT	4.7uF	20%	50V	C348	1-126-959-11		0.47uF	20%	50V
C112	1-126-163-11		4.7uF	20%	50V	C349	1-126-163-11		4.7uF	20%	50V
C113	1-126-163-11		4.7uF	20%	50V	0545	1-120-103-11	LLLOI	7.7UI	2070	301
C114	1-164-159-11		0.1uF	2070	50V	C350	1-124-250-11	FLECT	0.15uF	20%	50V
C115	1-104-133-11		10uF	20%	50V 50V	C351	1-126-962-11		3.3uF	20%	50V
0113	1-120-304-11	LLLUI	ioui	2070	30 V	C352	1-124-250-11		0.15uF	20%	50V
C116	1-126-964-11	FLECT	10uF	20%	50V	C357	1-164-159-11		0.1uF	2070	50V 50V
C110	1-120-304-11		0.1uF	2070	50V 50V	C359	1-104-153-11		4.7uF	20%	50V
C117	1-164-159-11		0.1uF		50V 50V	6339	1-120-103-11	LLLUI	4./ui	2070	30 V
C118			10uF	20%	50V 50V	C360	1 100 100 11	ELECT	4 7uE	20%	50V
C150	1-126-964-11 1-164-159-11			2070			1-126-163-11 1-164-159-11		4.7uF 0.1uF	2070	50V 50V
C 130	1-104-139-11	CERAIVIIC	0.1uF		50V	C361			0.1ur 0.001uF	100/	
0151	1 104 150 11	CEDANAIC	0.1		F0\/	C362	1-162-294-31			10%	50V
C151	1-164-159-11		0.1uF		50V	C370	1-164-159-11		0.1uF	000/	50V
C152	1-164-159-11		0.1uF		50V	C371	1-126-966-11	ELECT	33uF	20%	16V
C153	1-164-159-11		0.1uF		50V	0504	4 400 400 41	EL EOT	4.7	0001	501/
C154	1-164-159-11		0.1uF		50V	C501	1-126-163-11		4.7uF	20%	50V
C155	1-164-159-11	CERAMIC	0.1uF		50V	C502	1-162-282-31		100PF	10%	50V
_						C503	1-162-282-31		100PF	10%	50V
C302	1-126-934-11		220uF	20%	10V	C504	1-102-942-00		5.0PF	0.5PF	50V
C303	1-130-494-11		0.082uF	5%	50V	C506	1-104-665-11	ELECT	100uF	20%	16V
C304	1-137-367-11		0.0033uF		50V						
C305	1-130-494-11		0.082uF	5%	50V	C507	1-126-160-11		1uF	20%	50V
C306	1-126-959-11	ELECT	0.47uF	20%	50V	C509	1-137-372-11		0.022uF	5%	50V
						C511	1-126-163-11	ELECT	4.7uF	20%	50V

MAIN

Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			Remark
C512	1-126-163-11	ELECT	4.7uF	20%	50V	C802	1-136-169-00	FILM	0.22uF	5%	50V
C513	1-126-163-11	ELECT	4.7uF	20%	50V	C803	1-126-256-11	ELECT	4700uF	20%	35V
						C804	1-126-256-11	FLECT	4700uF	20%	35V
C514	1-126-160-11	FLECT	1uF	20%	50V	C807	1-104-664-11		47uF	20%	25V
	1-164-159-11			2070							
C515			0.1uF		50V	C808	1-104-664-11	ELECI	47uF	20%	25V
C516	1-126-163-11	ELECT	4.7uF	20%	50V						
C517	1-162-193-31	CERAMIC	3.3PF	10%	50V	C809	1-126-160-11	ELECT	1uF	20%	50V
C519	1-126-160-11	ELECT	1uF	20%	50V	C810	1-126-160-11	ELECT	1uF	20%	50V
						C811	1-126-942-61		1000uF	20%	25V
0551	1 100 100 11	FLECT	4.7	200/	F0\/						
C551	1-126-163-11		4.7uF	20%	50V	C812	1-126-941-11		470uF	20%	25V
C552	1-126-163-11		4.7uF	20%	50V	C813	1-101-001-00	CERAMIC	0.001uF		50V
C553	1-126-160-11	ELECT	1uF	20%	50V						
C554	1-126-163-11	ELECT	4.7uF	20%	50V	C814	1-101-001-00	CERAMIC	0.001uF		50V
C555	1-126-160-11		1uF	20%	50V	C815	1-126-949-11		220uF	20%	35V
0000	1-120-100-11	LLLOI	iui	2070	301				47uF	20%	50V
						C816	1-126-967-11				
C567	1-162-193-31		3.3PF	10%	50V	C817	1-126-160-11		1uF	20%	50V
C601	1-126-163-11	ELECT	4.7uF	20%	50V	C818	1-104-664-11	ELECT	47uF	20%	25V
C602	1-162-282-31	CERAMIC	100PF	10%	50V						
C603	1-162-282-31		100PF	10%	50V	CC07	1-162-282-31	CERAMIC	100PF	10%	50V
							1-162-282-31				
C604	1-102-942-00	CERAMIC	5.0PF	0.5PF	50V	CC08			100PF	10%	50V
						CC09	1-162-282-31		100PF	10%	50V
C605	1-104-665-11	ELECT	100uF	20%	16V	CC10	1-162-282-31	CERAMIC	100PF	10%	50V
C607	1-126-160-11	ELECT	1uF	20%	50V	CC57	1-162-282-31	CERAMIC	100PF	10%	50V
C609	1-137-372-11		0.022uF	5%	50V						
C610				20%	50V	CCEO	1 100 000 01	CEDAMIC	100DE	10%	50V
	1-126-160-11		1uF			CC58	1-162-282-31		100PF		
C651	1-126-163-11	ELECT	4.7uF	20%	50V	CC59	1-162-282-31		100PF	10%	50V
						CC60	1-162-282-31	CERAMIC	100PF	10%	50V
C652	1-162-282-31	CERAMIC	100PF	10%	50V	CC401	1-162-282-31	CERAMIC	100PF	10%	50V
C653	1-162-282-31	CERAMIC	100PF	10%	50V	CC403	1-162-282-31	CERAMIC	100PF	10%	50V
C654	1-102-942-00		5.0PF	0.5PF	50V	00.00	1 102 202 01	OLIG IIIIIO	10011	.070	
						00405	4 400 000 04	OFDANIO	400DE	400/	50V
C655	1-104-665-11		100uF	20%	16V	CC405	1-162-282-31		100PF	10%	50V
C656	1-126-160-11	ELECT	1uF	20%	50V	CC451	1-162-282-31	CERAMIC	100PF	0%	50V
						CC453	1-162-282-31	CERAMIC	100PF	10%	50V
C659	1-137-372-11	FILM	0.022uF	5%	50V	CC455	1-162-282-31	CERAMIC	100PF	10%	50V
C660	1-126-160-11		1uF	20%	50V	""					
C701	1-126-163-11				50V			CONNECTOR			
			4.7uF	20%				< CONNECTOR >			
C702	1-162-282-31		100PF	10%	50V						
C703	1-162-282-31	CERAMIC	100PF	10%	50V	CNS301	1-569-321-11	SOCKET, CONNEC	TOR 15P		
						CNS302	1-568-443-11	SOCKET, CONNEC	CTOR 13P		
C704	1-102-942-00	CERAMIC	5.0PF	0.5PF	50V	CNS800	1-691-770-11	PLUG (MICRO CO	INNECTOR)	8P	
C705	1-104-665-11		100uF	20%	16V			PLUG, CONNECTO		٠.	
										O A D D \ 4	n
C706	1-126-160-11		1uF	20%	50V	CNS8UZ	1-770-479-11	PLUG,CONNECTO	IR PIN(PC E	SUARD)4	P
C708	1-126-160-11	ELECT	1uF	20%	50V						
C709	1-137-372-11	FILM	0.022uF	5%	50V			< DIODE >			
C710	1-124-252-00	FLECT	0.33uF	20%	50V	D100	Q_71Q_Q11_1Q	DIODE 1SS119			
	1-136-159-00							DIODE 1SS119			
C711			0.033uF	5%	50V	D310					
C715	1-104-664-11		47uF	20%	16V	D520		DIODE 1SS119			
C718	1-164-159-11		0.1uF		50V	D521	8-719-911-19	DIODE 1SS119			
C720	1-102-973-00	CERAMIC	100PF	5%	50V	D550	8-719-911-19	DIODE 1SS119			
C730	1-126-934-11	ELECT	220uF	20%	10V	D620	0 710 011 10	DIODE 1SS119			
				2070							
C732	1-164-159-11		0.1uF		50V	D621		DIODE 1SS119			
C751	1-126-163-11	ELECT	4.7uF	20%	50V	D710	8-719-911-19	DIODE 1SS119			
C752	1-162-282-31	CERAMIC	100PF	10%	50V	D720	8-719-911-19	DIODE 1SS119			
C753	1-162-282-31		100PF	10%	50V	D721		DIODE 1SS119			
0700	1 102 202 01	OLIGUNIO		1070	001	5,2.	0 710 011 10	DIODE 100110			
0754	1 100 040 00	CEDANNO	E ODE	O CDC	EOV.	D704	0 710 014 40	DIODE 400440			
C754	1-102-942-00		5.0PF	0.5PF	50V	D731		DIODE 1SS119			
C755	1-104-665-11		100uF	20%	16V	D801	8-719-028-23	DIODE D3SBA20)-4101		
C756	1-126-160-11	ELECT	1uF	20%	50V	D810	8-719-024-99	DIODE 11ES2-N	TA2B		
C758	1-126-160-11		1uF	20%	50V	D811		DIODE 11ES2-N			
C759	1-137-372-11		0.022uF	5%	50V	D812		DIODE HZS24-1			
0103	1-13/-3/2-11	I ILIVI	J.ULZUF	J /0	JUV	שטוב	0-7 13-300-34	DIODE HESE4-1	LIV		
0	4 40	E1 E0E						DIODE 55			
C760	1-124-252-00		0.33uF	20%	50V	D813		DIODE RD5.1ES			
C761	1-136-159-00	FILM	0.033uF	5%	50V	D820	8-719-024-99	DIODE 11ES2-N	TA2B		
C765	1-104-664-11		47uF	20%	16V	D821		DIODE 11ES2-N			
C770	1-102-973-00		100PF	5%	50V	D822		DIODE 11ES2-N			
C801	1-136-169-00	rilivi .	0.22uF	5%	50V	D823	o-719-024-99	DIODE 11ES2-N	IAZB		
						i					

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
D850	8-719-911-19	DIODE 1SS119		Q760	8-729-202-67	FET 2SK246-	GR3		
				Q761		TRANSISTOR			
		< EARTH TERMINAL >		Q850	8-729-141-30	TRANSISTOR	2SC3623A-L	.K	
* G200	1-537-738-21	TERMINAL, EARTH		Q851	8-729-900-63	TRANSISTOR	DTA124ES		
* G201		TERMINAL, EARTH		Q852		TRANSISTOR		_	
* G202	1-537-738-21	TERMINAL, EARTH		Q853 Q854		TRANSISTOR TRANSISTOR			
		< IC >		Q004	0-729-119-70	TRANSISTUR	23A11/3-FF	E	
						< RESISTOR >			
IC100		IC M62447SP		D400	4 040 400 44	040004	2014	50 /	41001
IC300 IC302	8-759-527-00	IC LV1035M IC M5218AP-22		R100 R101	1-249-433-11 1-249-433-11		22K 22K	5% 5%	1/4W 1/4W
IC401		IC MC14052BCP		R101	1-249-433-11		22K	5%	1/4W
IC402		IC MC14052BCP		R103	1-249-433-11		22K	5%	1/4W
10.000		10 100000		R104	1-247-807-31	CARBON	100	5%	1/4W
IC500 IC501	8-759-545-64 8-759-502-33			R105	1-247-807-31	CADRON	100	5%	1/4W
IC501		IC M5218AP-22		R105	1-247-807-31		100	5% 5%	1/4W
IC503		IC M5218AP-22		R107	1-247-807-31		100	5%	1/4W
IC601	8-759-502-33	IC SI18752		R108	1-249-433-11		22K	5%	1/4W
10051	0.750.502.22	10 0110752		R109	1-249-433-11	CARBON	22K	5%	1/4W
IC651 IC701	8-759-502-33 8-759-502-33			R110	1-249-433-11	CARRON	22K	5%	1/4W
IC751	8-759-502-33			R111	1-249-433-11		22K	5%	1/4W
IC801	8-759-605-00	IC M5F78M07L		R112	1-249-433-11	CARBON	22K	5%	1/4W
IC802	8-759-604-95	IC M5F79M07L		R113	1-249-433-11		22K	5%	1/4W
IC803	9 750 701 50	IC NJM78M09FA		R114	1-247-807-31	CARBON	100	5%	1/4W
10003	0-755-701-55	IC INJINI/ONIOSFA		R115	1-247-807-31	CARBON	100	5%	1/4W
		< JACK >		R116	1-247-807-31		100	5%	1/4W
				R150	1-249-417-11		1K	5%	1/4W
J401		JACK, PIN 6P (5.1 CH INPUT/DVD)		R151	1-249-417-11		1K	5%	1/4W
J402 J403		JACK, PIN 4P (VIDEO, DVD 2CH) JACK, PIN 4P (TV)		R152	1-249-417-11	CARBON	1K	5%	1/4W
J404		JACK, PIN 1P (WOOFER)		R153	1-249-417-11	CARBON	1K	5%	1/4W
		, ,		R154	1-249-417-11	CARBON	1K	5%	1/4W
		< COIL >		R155	1-249-417-11		1K	5%	1/4W
L301	1-410-509-11	INDUCTOR 10uH		R156 R157	1-249-441-11 1-249-441-11		100K 100K	5% 5%	1/4W 1/4W
L507		COIL, AIR-CORE		1(10)	1-243-441-11	OARDON	10010	370	1/444
L607		COIL, AIR-CORE		R158	1-249-441-11	CARBON	100K	5%	1/4W
L657		COIL, AIR-CORE		R159	1-249-441-11		100K	5%	1/4W
L707	1-420-872-00	COIL, AIR-CORE		R160 R161	1-249-441-11 1-249-441-11		100K 100K	5% 5%	1/4W 1/4W
L757	1-420-872-00	COIL, AIR-CORE		R162	1-249-425-11		4.7K	5%	1/4W
		< TRANSISTOR >		R163	1-249-425-11		4.7K	5%	1/4W
Q150	9_720_1/1_30	TRANSISTOR 2SC3623A-LK		R164 R165	1-249-425-11 1-249-425-11		4.7K 4.7K	5% 5%	1/4W 1/4W
Q150 Q151		TRANSISTOR 2SC3623A-LK		R166	1-249-425-11		4.7K	5%	1/4W
Q152		TRANSISTOR 2SC3623A-LK		R167	1-249-425-11		4.7K	5%	1/4W
Q153		TRANSISTOR 2SC3623A-LK					4001		
Q154	8-729-141-30	TRANSISTOR 2SC3623A-LK		R168 R169	1-249-441-11 1-249-441-11		100K 100K	5% 5%	1/4W 1/4W
Q155	8-729-141-30	TRANSISTOR 2SC3623A-LK		R170	1-249-441-11		100K	5% 5%	1/4W
Q367		TRANSISTOR 2SC2785-HFE		R300	1-247-903-00		1M	5%	1/4W
Q520		TRANSISTOR 2SC2785-HFE		R303	1-249-439-11	CARBON	68K	5%	1/4W
Q550		TRANSISTOR 2SC2785-HFE		D204	1 240 411 14	CADDON	220	E0/	1///
Q551	0-129-119-/8	TRANSISTOR 2SC2785-HFE		R304 R306	1-249-411-11 1-249-436-11		330 39K	5% 5%	1/4W 1/4W
Q620	8-729-119-78	TRANSISTOR 2SC2785-HFE		R307	1-247-862-11		20K	5%	1/4W
Q710		FET 2SK246-GR3		R309	1-249-421-11		2.2K	5%	1/4W
Q711		TRANSISTOR 2SC3623A-LK		R340	1-249-420-11	CARBON	1.8K	5%	1/4W
Q720 Q730		TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE		R342	1-249-441-11	CARRON	100K	5%	1/4W
Q/3U	J-163-113-10	TIVINGISTOR 2302/03-FFE		R342 R343	1-249-441-11		100K	5%	1/4W 1/4W
Q731	8-729-140-82	TRANSISTOR 2SA988-PAFAEA		R357	1-249-441-11		100K	5%	1/4W
Q732	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		R358	1-249-441-11	CARBON	100K	5%	1/4W

MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	<u>Description</u>			Remark	(
R359	1-249-429-11	CARBON	10K	5%	1/4W	R605	1-247-828-11	CARBON	750	5%	1/4W	
11000	1 2 10 120 11	or it bott		0,0	.,	R607	1-249-389-11		4.7	5%	1/4W	
R360	1-249-429-11	CARBON	10K	5%	1/4W	R608	1-249-437-11		47K	5%	1/4W	
R365	1-249-425-11		4.7K	5%	1/4W	 ∆R609	1-249-393-11		10	5%	1/4W	F
R374	1-249-429-11		10K	5%	1/4W							
R375	1-249-429-11		10K	5%	1/4W	R621	1-249-426-11	CARBON	5.6K	5%	1/4W	
R381	1-247-807-31		100	5%	1/4W	R622	1-249-426-11		5.6K	5%	1/4W	
						R623	1-249-433-11		22K	5%	1/4W	
R382	1-247-807-31	CARBON	100	5%	1/4W	 ∆R640	1-249-399-11		33	5%	1/4W	F
R383	1-247-807-31		100	5%	1/4W	R651	1-249-417-11		1K	5%	1/4W	
 ▲ R397	1-249-404-00		82	5%	1/4W F							
R399	1-249-426-11		5.6K	5%	1/4W	R652	1-249-438-11	CARBON	56K	5%	1/4W	
R401	1-249-417-11	CARBON	1K	5%	1/4W	R654	1-249-438-11	CARBON	56K	5%	1/4W	
						R655	1-247-828-11	CARBON	750	5%	1/4W	
R403	1-249-417-11	CARBON	1K	5%	1/4W	R657	1-249-389-11	CARBON	4.7	5%	1/4W	
R405	1-249-417-11	CARBON	1K	5%	1/4W	R658	1-249-439-11	CARBON	68K	5%	1/4W	
R407	1-249-417-11	CARBON	1K	5%	1/4W							
R408	1-249-417-11	CARBON	1K	5%	1/4W	 ▲ R659	1-249-393-11	CARBON	10	5%	1/4W	F
R409	1-249-417-11	CARBON	1K	5%	1/4W	R701	1-249-417-11	CARBON	1K	5%	1/4W	
						R702	1-249-438-11	CARBON	56K	5%	1/4W	
R410	1-249-417-11	CARBON	1K	5%	1/4W	R704	1-249-437-11	CARBON	47K	5%	1/4W	
R451	1-249-417-11	CARBON	1K	5%	1/4W	R705	1-249-416-11	CARBON	820	5%	1/4W	
R453	1-249-417-11	CARBON	1K	5%	1/4W							
R455	1-249-417-11	CARBON	1K	5%	1/4W	R707	1-249-389-11	CARBON	4.7	5%	1/4W	
R457	1-249-417-11	CARBON	1K	5%	1/4W	R708	1-249-437-11	CARBON	47K	5%	1/4W	
						▲R709	1-249-393-11	CARBON	10	5%	1/4W	F
R458	1-249-417-11	CARBON	1K	5%	1/4W	R710	1-247-903-00	CARBON	1M	5%	1/4W	
R459	1-249-417-11	CARBON	1K	5%	1/4W	R711	1-247-843-11	CARBON	3.3K	5%	1/4W	
R460	1-249-417-11	CARBON	1K	5%	1/4W							
R501	1-249-417-11	CARBON	1K	5%	1/4W	R712	1-249-413-11	CARBON	470	5%	1/4W	
R502	1-249-438-11	CARBON	56K	5%	1/4W	R713	1-247-883-00	CARBON	150K	5%	1/4W	
						R714	1-249-427-11	CARBON	6.8K	5%	1/4W	
R504	1-249-438-11	CARBON	56K	5%	1/4W	R715	1-249-441-11	CARBON	100K	5%	1/4W	
R505	1-247-828-11	CARBON	750	5%	1/4W	R717	1-249-441-11	CARBON	100K	5%	1/4W	
R507	1-249-389-11	CARBON	4.7	5%	1/4W							
R508	1-249-437-11	CARBON	47K	5%	1/4W	R718	1-247-903-00		1M	5%	1/4W	
 ▲R509	1-249-393-11	CARBON	10	5%	1/4W F	R719	1-249-433-11		22K	5%	1/4W	
						R721	1-249-426-11		5.6K	5%	1/4W	
R512	1-249-441-11		100K	5%	1/4W	R722	1-249-426-11		5.6K	5%	1/4W	
R513	1-249-429-11		10K	5%	1/4W	R723	1-249-433-11	CARBON	22K	5%	1/4W	
R514	1-249-429-11		10K	5%	1/4W							
R515	1-249-419-11		1.5K	5%	1/4W	R730	1-249-427-11		6.8K	5%	1/4W	
R516	1-249-419-11	CARBON	1.5K	5%	1/4W	R731	1-249-429-11		10K	5%	1/4W	
						R732	1-249-435-11		33K	5%	1/4W	
R517	1-249-429-11		10K	5%	1/4W	R733	1-249-429-11		10K	5%	1/4W	_
R518	1-249-429-11		10K	5%	1/4W	 ⚠R740	1-249-399-11	CARBON	33	5%	1/4W	F
R519	1-249-429-11		10K	5%	1/4W				2011			
R520	1-249-416-11		820	5%	1/4W	R742	1-249-433-11		22K	5%	1/4W	
R521	1-249-426-11	CARBON	5.6K	5%	1/4W	R743	1-249-435-11		33K	5%	1/4W	
DEGG	1 040 400 11	CADDON	E CV	F0/	4 / 4/4/	R744	1-249-429-11		10K	5%	1/4W	
R522	1-249-426-11		5.6K	5%	1/4W	R750	1-249-417-11		1K	5%	1/4W	
R523	1-249-433-11		22K	5%	1/4W	R751	1-249-417-11	CARDUN	1K	5%	1/4W	
 ∆R540	1-249-399-11		33 10V	5% 50/	1/4W F	D752	1-249-438-11	CADDON	ECV	E0/	1/4W	
R550 R551	1-249-429-11		10K 100K	5% 5%	1/4W 1/4W	R752 R754	1-249-436-11		56K 47K	5% 5%	1/4W 1/4W	
Kaai	1-249-441-11	CARDUN	IUUK	376	1/4 VV	R754	1-249-416-11		820	5% 5%	1/4W	
R552	1-249-441-11	CADRON	100K	5%	1/4W	R757	1-249-389-11		4.7	5%	1/4W	
R552 R553	1-249-441-11		100K	5%	1/4W 1/4W	R757	1-249-369-11		4.7 68K	5% 5%	1/4W	
R554	1-249-416-11		820	5% 5%	1/4W	K/30	1-243-433-11	CARDON	OOK	376	1/44	
R555	1-249-425-11		4.7K	5%	1/4W	▲R759	1-249-393-11	CADRON	10	5%	1/4W	_
R556	1-249-425-11		68K	5%	1/4W 1/4W	R760	1-249-393-11		1M	5%	1/4W	•
1/330	1-270-400-11	OARDON	OUN	J /0	1/744	R761	1-247-843-11		3.3K	5% 5%	1/4W	
R557	1-247-887-00	CARRON	220K	5%	1/4W	R762	1-249-413-11		3.3K 470	5%	1/4W	
R558	1-247-667-00		100K	5%	1/4W 1/4W	R762	1-247-883-00		150K	5%	1/4W	
R581	1-249-433-11		22K	5%	1/4W	17,00	. 277-000-00	J. 11 2011	.001	370	./	
R601	1-249-417-11		1K	5%	1/4W	R764	1-249-427-11	CARBON	6.8K	5%	1/4W	
R602	1-249-438-11		56K	5%	1/4W	R765	1-249-441-11		100K	5%	1/4W	
		J 		3,3	•••	R769	1-249-433-11		22K	5%	1/4W	
R604	1-249-438-11	CARBON	56K	5%	1/4W	R792	1-249-433-11		22K	5%	1/4W	
					- ·-							

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

MAIN	POW	ER SW	PRIM	ARY	SEC	ONDA	RY S1	ANDBY				
Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			Remark	
R793	1-249-435-11	CARBON	33K	5%	1/4W			< CAPACITOR >				
R794	1-249-429-11		10K	5%	1/4W	C920	1-161-494-0		0.022uF		25V	
Δ\R810 Δ\R811	1-249-386-11 1-249-386-11		2.7 2.7	5% 5%	1/6W F 1/6W F	C921 C950	1-161-494-0 1-126-767-1		0.022uF 1000uF	20%	25V 16V	
Δ R 812	1-249-300-11		470	5% 5%	1/6W F	C950	1-120-767-1		0.1uF	20%	50V	
⚠R850	1-249-401-11		47	5%	1/4W F	C952	1-126-960-1		1uF	20%	50V	
R851	1-249-429-11		10K	5%	1/4W	C953	1-124-464-1		0.22uF	20%	50V	
R852	1-249-429-11		10K	5%	1/4W	C954	1-126-964-1		10uF	20%	50V	
R853 R855	1-249-421-11 1-249-441-11		2.2K 100K	5% 5%	1/4W 1/4W	C955 C957	1-164-159-1 1-164-159-1		0.1uF 0.1uF		50V 50V	
R856	1-249-425-11		4.7K	5% 5%	1/4W 1/4W	C937	1-104-139-1	I CERAIVIIC	U. Tur		30V	
								< CONNECTOR	>			
R860	1-249-434-11		27K	5%	1/4W 1/4W	CNIDOOS	1 770 400 1	1 SOCKET COMMI	CTOD DIM	4D		
R861 R862	1-249-434-11 1-249-434-11		27K 27K	5% 5%	1/4W 1/4W			1 SOCKET, CONNI D PIN, CONNECTO		4P		
R901	1-249-425-11		4.7K	5%	1/4W	CNF 902	1-304-321-0	•	JK ZF			
		< RELAY >						< DIODE >				
						D901		9 DIODE 1SS119				
	1-755-267-11					D910		9 DIODE 11ES2-				
	1-515-921-11					D911		9 DIODE 11ES2-				
	1-515-921-11	, ,				D912		DIODE 11ES2-				
RY701	1-515-921-11	RELAY (12V)				D913	8-719-024-9	9 DIODE 11ES2-	NIAZB			
T1 4004	4 507 540 44	< TERMINAL >	ADD (CDEA)	(ED) (OD)		D914 D915		DIODE 1SS119 DIODE 1SS119				
		TERMINAL BOARD (SPEAKER) (6P) (SPEAKERS, CENTER/REAR)						< FUSE >				
TM701	1-537-240-11	TERMINAL BOARD (CHECKER PIN) (SPEAKERS, FRONT)				▲F901	1-532-463-5	1 FUSE, TIME LAG	FUSE, TIME LAG (T1AL/250V)			
		< VIBRATOR >						< IC >				
X301	1-579-952-11	VIBRATOR, CEI	RAMIC (8MI	łz)	****	IC950	8-759-333-8	3 IC NJM2103D				
********								< TRANSISTOR	>			
*	1-670-635-11	POWER SW BC										
		******	****			Q901		B TRANSISTOR :				
		< CONNECTOR	>			Q951	8-729-020-0	B TRANSISTOR	2302323 (1	Ρ)		
* CNP203	1-565-295-11	PLUG, CONNEC	CTOR 4P					< RESISTOR >				
						R902	1-249-437-1	1 CARBON	47K	5%	1/4W	
		< SWITCH >				R950	1-249-421-1	1 CARBON	2.2K	5%	1/4W	
						R951	1-249-428-1		8.2K	5%	1/4W	
S200	1-762-875-21	SWITCH, KEYB	, -,		*****	R952	1-249-422-1		2.7K	5%	1/4W	
*******	***********		*****	*******	******	R953	1-249-433-1	I CARBUN	22K	5%	1/4W	
*	1-670-638-11	PRIMARY BOA				R954	1-249-439-1		68K	5%	1/4W	
		********	**			R955	1-249-429-1		10K	5%	1/4W	
*****						R956	1-247-843-1		3.3K	5%	1/4W	
******	****	********		*****	******	R957	1-249-417-1		1K	5%	1/4W	
*	1-670-639-11	SECONDARY B	OARD			R960	1-249-431-1	I CARDUN	15K	5%	1/4W	
		*******	****			R970	1-249-399-1	1 CARBON	33	5%	1/4W	
		< RESISTOR >						< RELAY >				
	1-249-381-11 1-249-381-11	CARBON	1 1	5% 5%	1/4W F 1/4W F	RY901	1-755-018-1		_			
******	*********	********	*******	*******	******			< TRANSFORMI	R>			
*	A-4414-851-A	STANDBY BOA	-			 ∆T902		1 TRANSFORMER		*****	******	
	1-533-293-11	FUSE HOLDER										

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	

6	1-777-353-11	WIRE (FLAT TYPE) (15 CORE)	
-			
8	1-769-973-11	WIRE (FLAT TYPE) (13 CORE)	
FAN1	1-763-137-11	FAN, DC	
 ⚠ PC900	1-751-520-11	CORD, POWER (UK)	
 △ PC900	1-777-071-21	CORD, POWER (AEP)	
∧ T900	1 421 070 11	TRANSFORMER, POWER	
221300	1-431-8/8-11	TRANSFORMER, FOWER	
******			*****

ACCESSORIES & PACKING MATERIALS

1-475-042-11 ADAPTOR (EURO SCART ADAPTOR)
1-475-808-11 REMOTE COMMANDER (RM-U150)
3-864-251-11 INSTRUCTION MANUAL (ENGLISH, FRENCH, DUTCH, SWEDISH) (AEP)
3-864-251-21 INSTRUCTION MANUAL (GERMAN, SPANISH,

ITALIAN, PORTUGUESE) (AEP) 3-864-251-31 INSTRUCTION MANUAL (ENGLISH) (UK)

4-981-643-01 COVER, BATTERY (for RM-U150)